

WHAT IS CLAIMED IS:

1. A coupling device for an artificial model, comprising
  - a male joining part; and
  - 5 a female joining part, being joined to the male joining part tightly; wherein, the male joining part further comprises:
    - a first base disk with a first hollow center;
    - a first front positioning plate with a second hollow
    - 10 center, having a central protrusion part;
    - a rear positioning lock plate with a third hollow center;
    - a plurality of first bolts, fastening the base disk, the front positioning plate and the rear positioning lock plate
    - 15 together; and
    - an insertion member, passing through the base disk, the front positioning plate, the rear positioning lock plate via the hollow centers;
    - and the female joining part further comprises;
    - 20 a second base disk;
    - a second front positioning plate;
    - a second rear positioning lock plate; and
    - a plurality of second bolts, fastening the second base disk, the second front positioning plate and the second
    - 25 rear positioning lock plate tighter;
    - characterized in that the first front positioning plate has a central circular protrusion; the insertion member is composed of an insert head, a pin, an adjustment bolt, an elastic body and a covering cap with the insert head having
    - 30 a conical shape and an elongated flat part at a bottom thereof;

the pin is inserted into the insert head along a radial direction of the insert head and passing through an axis of the insert head to form a shape of cross; the second hollow center has a shape corresponding to the elongated flat part of the insert head such that the elongated flat part of the insert head can fit with the second hollow center after being inserted into the second hollow center with the adjustment bolt passing through the cap and the elastic body before engaging with the bottom of insert head; the second front positioning plate at a center thereof has a hollow part with a plurality of equidistant radial grooves and two opposite ones of the radial grooves are pierced with the pin; and a radial recess is disposed between two neighboring ones of the radial grooves respectively;

whereby, the male joining member and the female joining member can be joined to each other tightly and be inserted into each other for achieving a purpose of positioning.

2. The coupling device for an artificial model according to claim 1, wherein the insert head has a hollow part with internal screw threads and a fitting hole and another elastic body with a ball is disposed in the hollow part such that the insert head can be engaged to a screw rod and the pin has a recess and is inserted into the fitting hole with the ball being located in the recess to form a structure of at an lower section of the insert head having an elastic body in addition the original elastic body, which is disposed at an upper section of the insert head.

3. The coupling device for an artificial model according

to claim 1, wherein each of the radial grooves of the second front positioning plate at an inner edge thereof has a guide chamfer.

5           4. The coupling device for an artificial model according to claim 1, the insert head at a lower end of the elongated flat part thereof has a conical part disposed in the elastic body and the elastic body surrounds the adjustment bolt and is disposed between the first positioning plate and the cap  
10 in a state of biasing against the first positioning plate and the cap; whereby, after the first base disk being subjected to a foreign force to separate the female joining part, the first base disk can be pushed back to original position thereof along a taper of the conical part quickly because of an elastic  
15 force of the elastic body.

          5. The coupling device for an artificial model according to claim 4, wherein the first positioning plate is provided with a plurality of posts to confine the elastic body and prevent  
20 the elastic body from slip.

          6. The coupling device for an artificial model according to claim 1, wherein the first base disk and the second base disk at peripheries thereof have a respective upright rim facing  
25 to each other such that a clearance between the two base disks can be formed with more smooth contact.

          7. The coupling device for an artificial model according to claim 1, wherein the first base disk and the second base  
30 disk at a side thereof have a recess respectively to receive

the first front positioning plate and the second front positioning plate, which are provided with a circular contour corresponding to each other, with each of the recesses having a flange to avoid hips of the artificial model at peripheries thereof being damaged due to frictional contact.

8. The coupling device for an artificial model according to claim 1, wherein the first and the second base disks have threaded holes with respect to the centers of the two base disks respectively for the base disks being attached to the hips of the artificial model.

9. The coupling device for an artificial model according to claim 8, wherein the threaded holes of the first and the second base disks are disposed equidistantly to allow the first and the second front positioning plates or the first and the second rear positioning lock plates being able to be arranged to have two adjusted cross orientations.

10. The coupling device for an artificial model according to claim 1, wherein the first and the second positioning plates at a side thereof respectively facing the threaded holes of the first and the second base disks have a jut out cone jut respectively and the threaded holes have a countersink corresponding to the jut out cone.

11. The coupling device for an artificial model according to claim 1, wherein the first front positioning plate at the rear side thereof has a locating recess for the elastic body to prevent the elastic body from slipping.

12. The coupling device for an artificial model according to claim 1, wherein the first rear positioning lock plate and the second rear positioning lock plate are provided with an aperture and a threaded hole respectively corresponding to a post and a threaded hole at the first base disk and the second base disk respectively for locating the first and the second rear positioning lock plates by way of the posts being inserted into the apertures and a bolt engaging the threaded holes respectively.

13. The coupling device for an artificial model according to claim 1, wherein the first base disk and the second base disk are provided with a recess facing the first rear positioning lock plate and the second rear positioning lock plate respectively and the rear positioning lock plate are provided with a hollow part corresponding to the posts respectively for locating the rear positioning lock plates quickly.

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